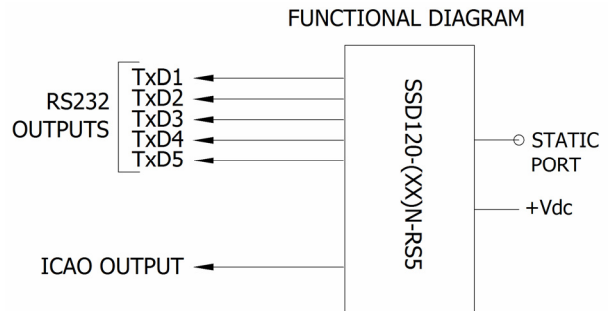


*Trans-Cal Industries, Inc.
Model SSD120-(XX)N-RS5
Altitude Encoder/Digitizer*

Drive up to Five RS-232 Devices with a Single Encoder!

Designed to provide a fan-out of up to five RS-232 compliant altitude data outputs in addition to the ICAO pressure altitude code, the Model SSD120-(XX)N-RS5 is an all solid-state Altitude Encoder/Digitizer.

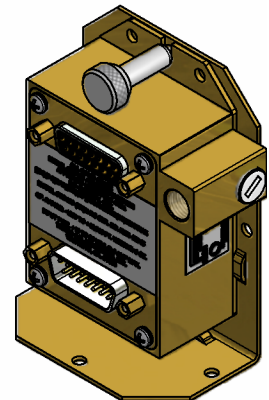
RS232 has become a popular format for transmitting serial altitude data within the aircraft; but RS-232 is limited to only one receiver per driver. The SSD120-(XX)N-RS5 is Trans-Cal's answer to this limitation. Utilizing Trans-Cal's popular small footprint "nano" package, the SSD120-(XX)N-RS5 provides five RS-232 compliant altitude data ports. The SSD120-(XX)N-RS5 provides a simple, robust means of transmitting serial altitude data to multiple aircraft systems.



Featuring:

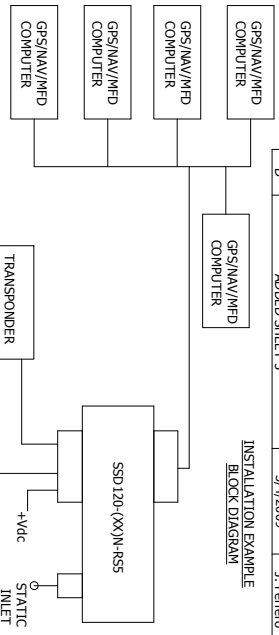
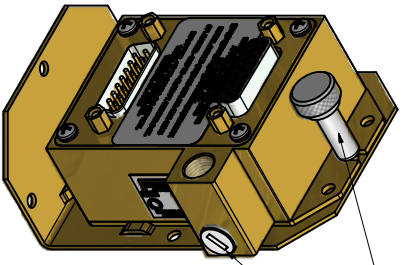
- Smallest footprint in the industry
- A fan-out of up to five RS232 compliant output ports
- RS-232 Ports may be installer configured to transmit as one group of five or in two groups (3 & 2) with separate data protocols (message & baud rate) transmitted on each group.
- One standard ICAO pressure altitude port.
- FAA TSO-C88a and EASA ETSO-C88a Approved
- Tested and Conforming to MIL-STD-704E and RTCA DO-160E
- Power, ground and data I/O are provided on industry standard 15-pin D-Subminiature connectors
- Operating Voltage +10 to +33Vdc
- Operating Current: 320mA max.
- Operating Standard Temperature Range: -20° to +70°C
- (Optional) Extended Temp. Range -55° to +70°C
- Operating Altitude Ranges: -1200 up to +100,000 feet
- Weight: 5 oz. (Mounting tray and knob adds 1 oz.)

Trans-Cal Industries, Inc.
16141 Cohasset St.
Van Nuys, CA 91406
www.trans-cal.com

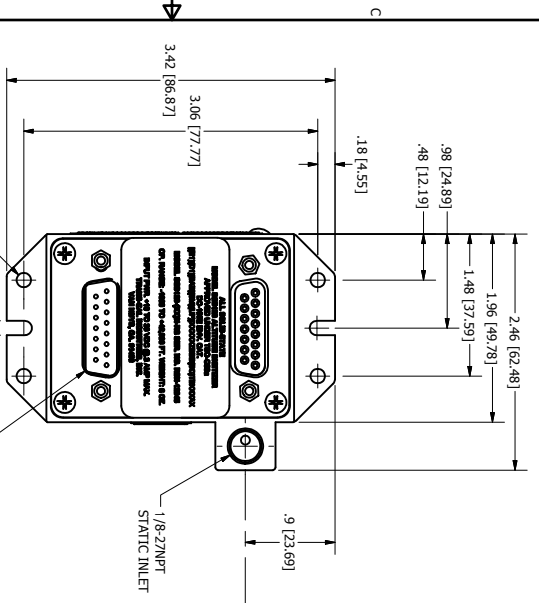


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PIN	FUNCTION	--	PIN	FUNCTION
1	GROUND		9	PROTOCOL
2	10' RES.		10	PROTOCOL
3	RxD		11	PROTOCOL
4	GROUND		12	TxD3
5	GROUND		13	GROUND
6	TxD1		14	TxD4
7	GROUND		15	TxD5
8	TxD2		--	--

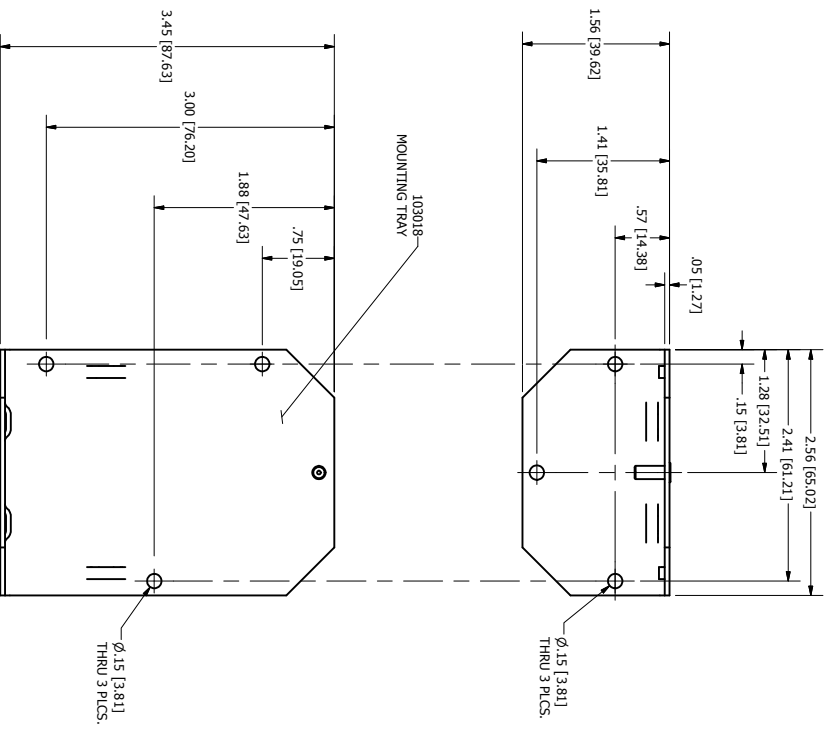
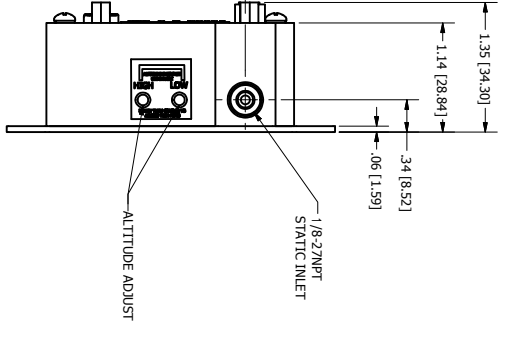


REV	DESCRIPTION	DATE	APPROVED
A	PRODUCTION RELEASE	10/17/2007	J. Ferrero
B	ADDED .33 & 1.96 DIM. 1.13 VAS 1.12	2/5/2007	J. Ferrero
C	ADDED DIM. UNITS	2/5/2007	J. Ferrero
D	ADDED SHEET 5	3/4/2009	J. Ferrero



MODEL NO.	OPERATING RANGE
SSD120-30N-R55	-1000 TO +30,000 FT.
SSD120-35N-R55	-1000 TO +35,000 FT.
SSD120-42N-R55	-1000 TO +42,000 FT.

PIN	FUNCTION	--	PIN	FUNCTION
1	D4		9	B2
2	A1		10	B4
3	A2		11	C1
4	A4		12	C4
5	B1		13	C2
6	STROBE		14	+14/28Vdc
7	D2		15	GROUND
8			--	--



6. APPROVED UNDER TSO-C88A AND ETSO-C88A.
5. ALL GROUNDS ON THE SERIAL DATA CONNECTOR ARE DATA GROUNDS AND ARE INTERNALLY CONNECTED TO GROUND.
4. D2 DATA BIT INCLUDED ON UNITS OPERATING ABOVE 62,750 FEET ONLY.
3. SHEET 1 DETAILS THE SSD120-(XX)N WITH OPERATING CEILING UP TO 42,000 FT. SHEET 2 DETAILS HIGH ALTITUDE MODEL. SSD120-(XX)N-R522. SHEET 3 DETAILS S HIGH ALTITUDE UNITS WITH SWIVEL STATIC PORT FITTING.
2. PINS 14 AND 8 CONNECTED INTERNALLY.
1. AN "E" SUFFIX IN THE PART NO. (SSD120-30NE-R55) DESIGNATES FULL TEMPERATURE RANGE (-55 TO +70°C).

TOP ASSEMBLY 103901		DRAWN H. Smith 2/5/2007		<h2>Trans-Cal Industries, Inc.</h2> <p>Van Nuys, CA 91406</p> <h3>Outline Drawing, SSD120-(XX)N(XX) Series</h3> <h4>Altitude Digitizer</h4>	
TOLERANCES: UNLESS OTHERWISE NOTED DECIMALS: .010 FRACTIONS: XXX±.005		CHECKED M. Remenih 2/8/2007			
THIRD ANGLE PROJECTION		QA J. Ferrero 10/17/2007		TITLE Outline Drawing, SSD120-(XX)N(XX) Series Altitude Digitizer	
APPROVED J. Ferrero 10/17/2007		MFG. C. Herrera 10/17/2007		SIZE DO NOT SCALE DRAWING DWG NO Outline SSD120-(XX)N	
METRIC (SI) EQUIVALENTS BASED ON 1"=25.4MM		APPROVED J. Ferrero 10/17/2007		SCALE 1:1 UNITS: INCH (MM) SHEET 5 OF 5	